

Table 1.

Position aa	Sequence	Number of aa	Molecular weight	Isoelectric point
Peptide 1 1-33	VPKVTTFTVEKGSNEKHLAVLVKYEGDTMAEVELC	34	3765,02	4.87
Peptide 3 65-96	REHGSDEWWVAMTKGEGGVWTFDSEEPLQGPFNC	33	3696,8	4.03
Peptide 2 34-64	CFRFLTEKGMMKNVFDVVVPEKYTIGATYAPEE	32	3698,91	4.45

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Table 2.

Induction of immediate skin reactions with Phl p 2 and Phl p 2 mosaic

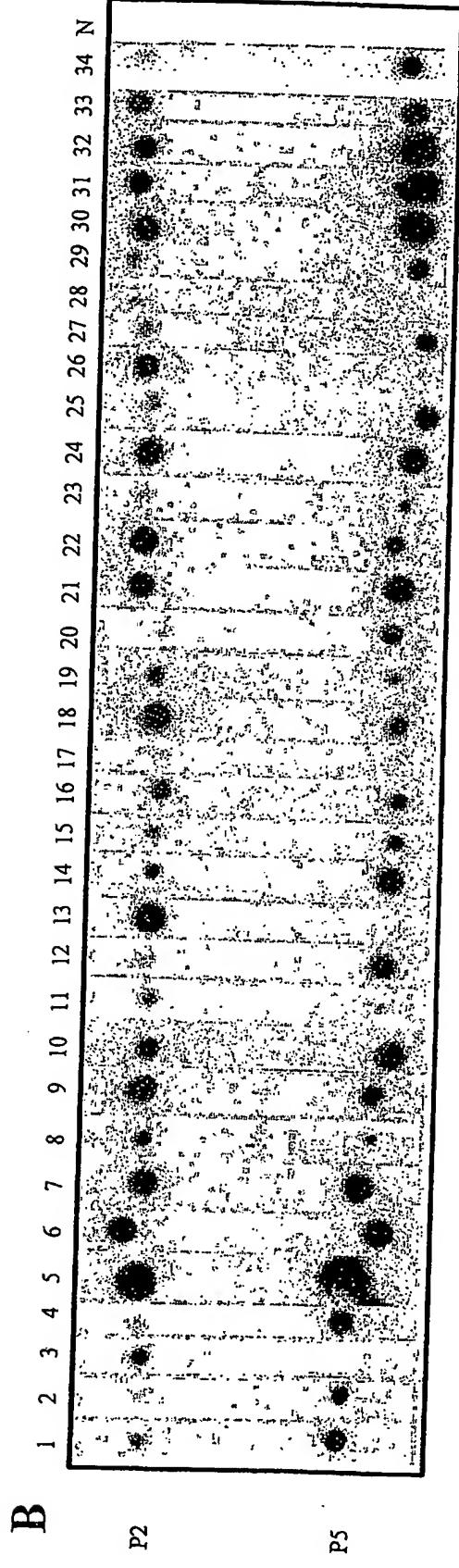
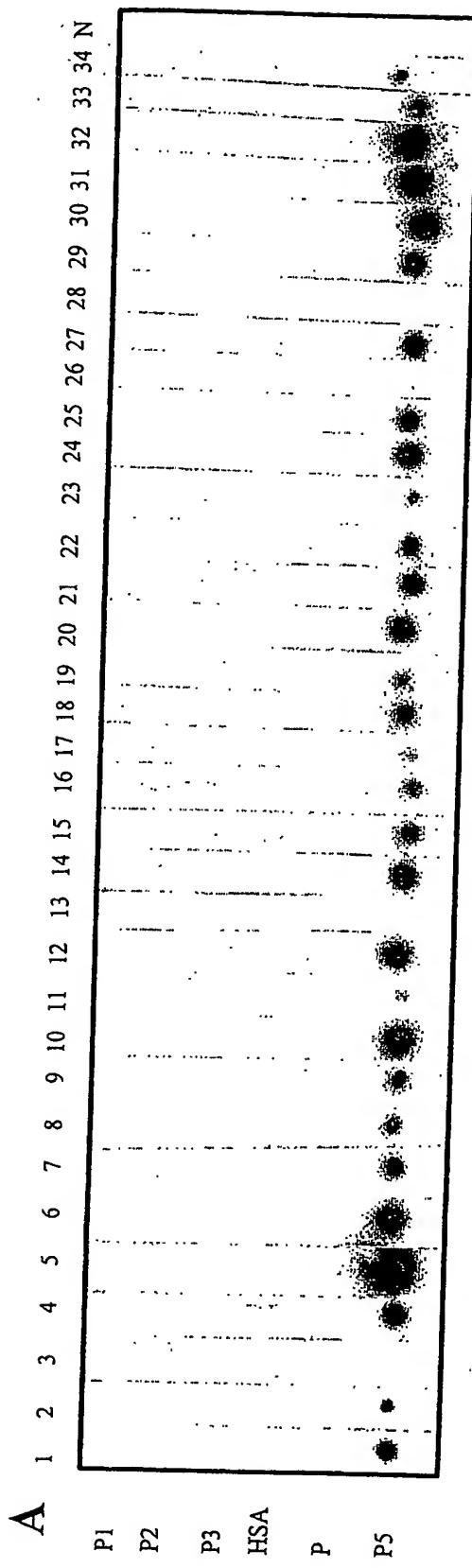
Individual 1		mean wheal diameter (mm)		Individual 2		mean wheal diameter (mm)	
		P2	P2M			P2	P2M
1 µg/ml	9	0	0	1 µg/ml	5	0	0
2 µg/ml	10	0	0	2 µg/ml	5	0	0
4 µg/ml	11	0	0	4 µg/ml	6	0	0
8 µg/ml	14	5	8 µg/ml	7	0	0	0
16 µg/ml	10	4	16 µg/ml	9	3	3	3
Timothy grass	15		Timothy grass	10			
Histamine	8		Histamine	8			

Table 3.

Rabbit anti P2 mosaic and rabbit anti-rPhl p 2 antibodies inhibit IgE binding of grass pollen allergic patients to rPhl p 2

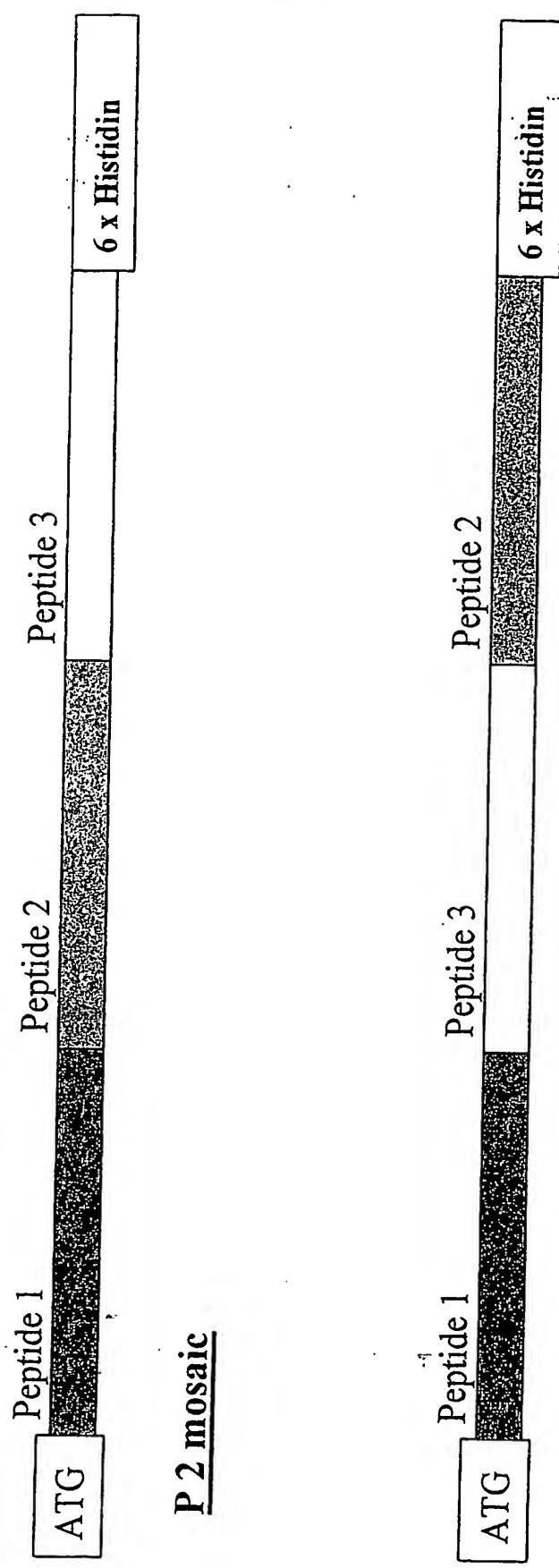
Patient	% inhibition	
	anti-P2M	anti-rPhl p 2
1	39.54	76.93
2	9.25	63.97
3	23.20	52.91
4	14.38	40.86
5	18.27	38.97
Mean	20.93	54.73

Figure 1.



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Figure 2.

P2

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Figure 3.

SEQ ID NO:

6 P2/1: 5' - GGA TTT CCA TAT GGT CCC GAA GGT GAC GTT CAC G - 3'
 7 P2/2: 5' - GGT GAG GAA CCG GAA GAG CTC CAC CTC CGC CAT GGT - 3'
 8 P2/3: 5' - GCG GAG GTG GAG CTC TTC CGG CTC CTC ACC GAG AAG - 3'
 9 P2/4: 5' - GGA GCC GTG CTC CCG CTC TTC TGG CGC GTA GGT GGC - 3'
 10 P2/5: 5' - TAC GCG CCA GAA GAG CGG GAG CAC GGC TCC GAC GAG - 3'
 11 P2/6: 5' - CGC GAA TTC TCA GTG GTG GTG GTG GAA GGG CCC CTG GAG
 CGG - 3'

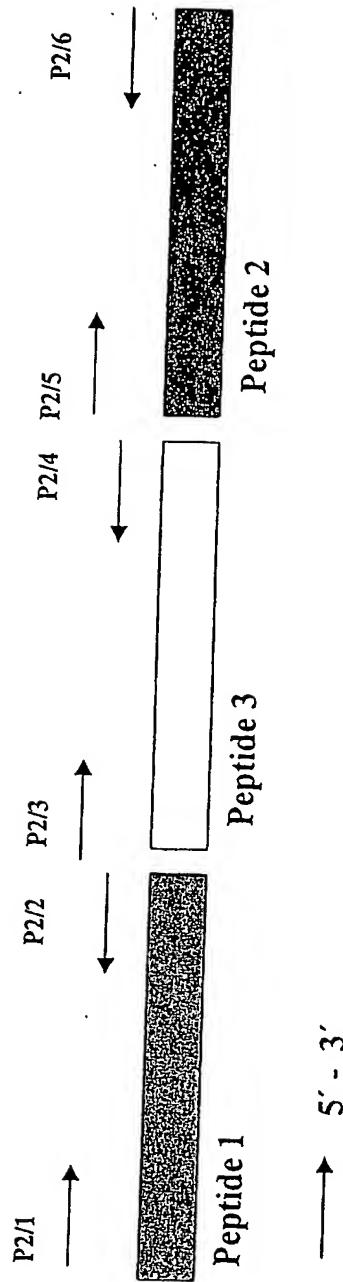


Figure 4.

P2M-Sequence

ATG GTC CCG AAG GTG ACG TTC ACG GTG GAG AAG GGG TCC AAC GAG AAG CAC
 M V P K V T F T V E K G S N E K H 51 17

CTG CGG GTG CTG GTG AAG TAC GAG GGG GAC ACC ATG GCG GAG CTG GAG CTC
 L A V L V K Y E G D T M A E V E L 102 34

TTC CGG TTC CTC ACC GAG AAG GGC ATG AAG AAC GTC TTC GAC GAC GTC GTC
 F R F L T E K G M K N V F D D V V 153 51

CCA GAG AAG TAC ACC ATT GGG GCC ACC TAC GCG CCA GAA GAG CGG GAG CAC
 P E K Y T I G A T Y A P E E R E H 204 68

GGC TCC GAC GAG TGG GTC GCC ATG ACC AAG GGG GAG GGC GGC GTG TGG ACG
 G S D E W V A M T K G E G G V W T 255 85

TTC GAC AGC GAG GAG CCG CTC CAG GGG CCC TTC AAC CAC CAC CAC CAC
 F D S E E P L Q G P F N H H H H 306 102

CAC
 H 309 103

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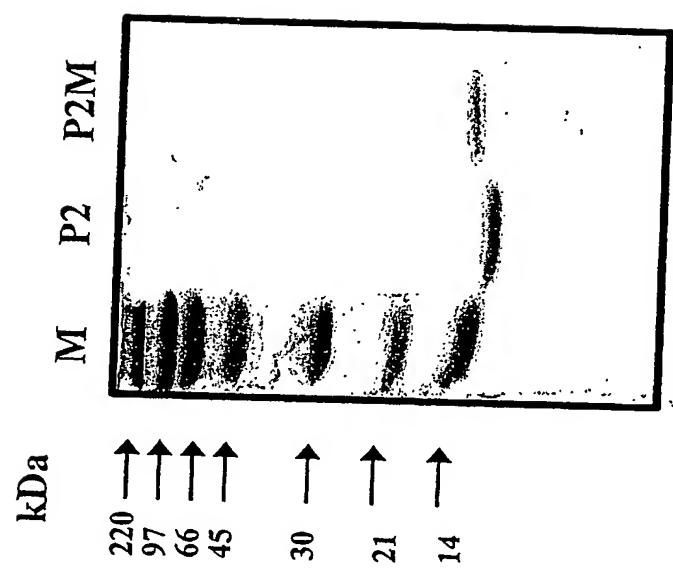


Figure 5.

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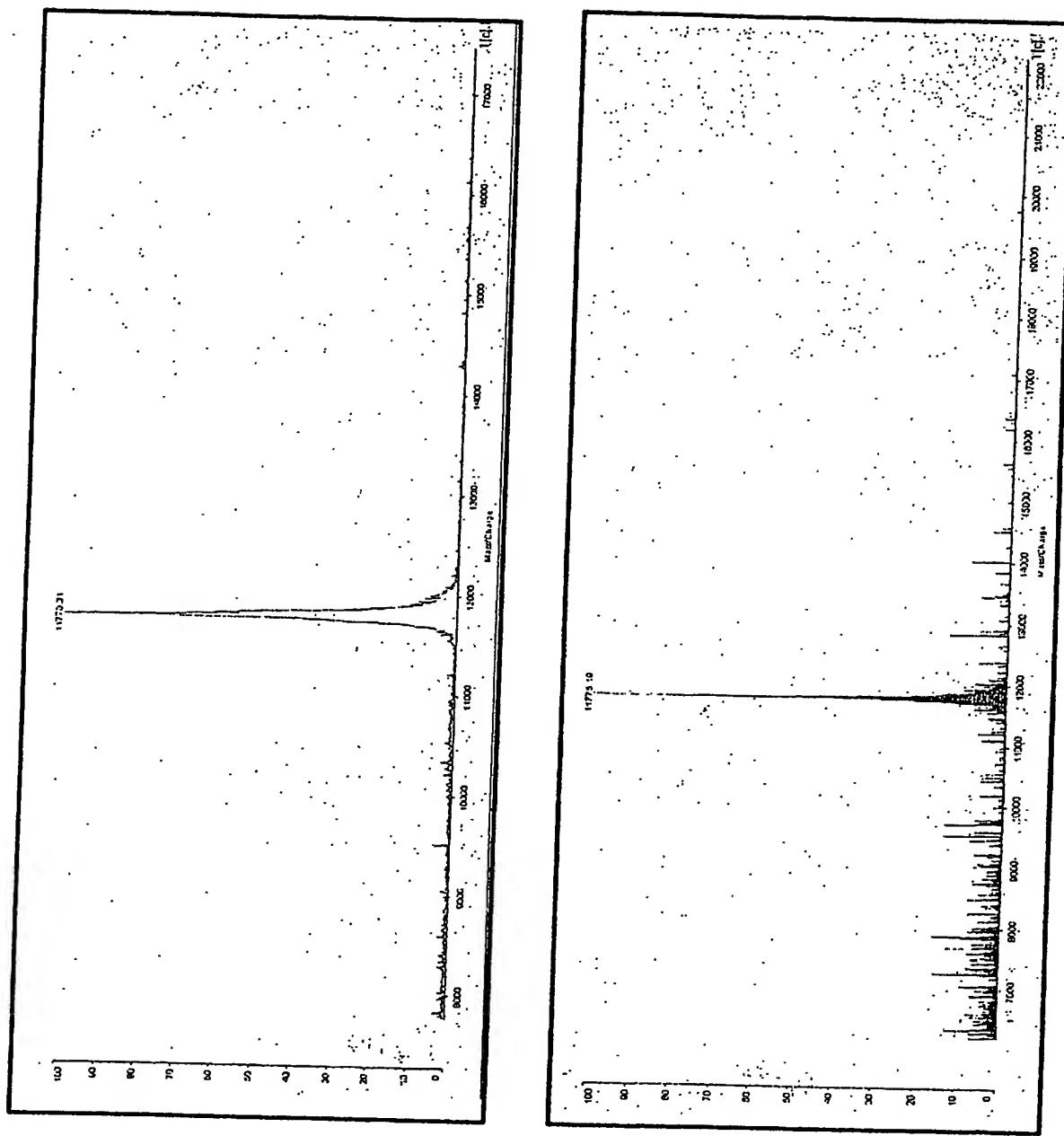


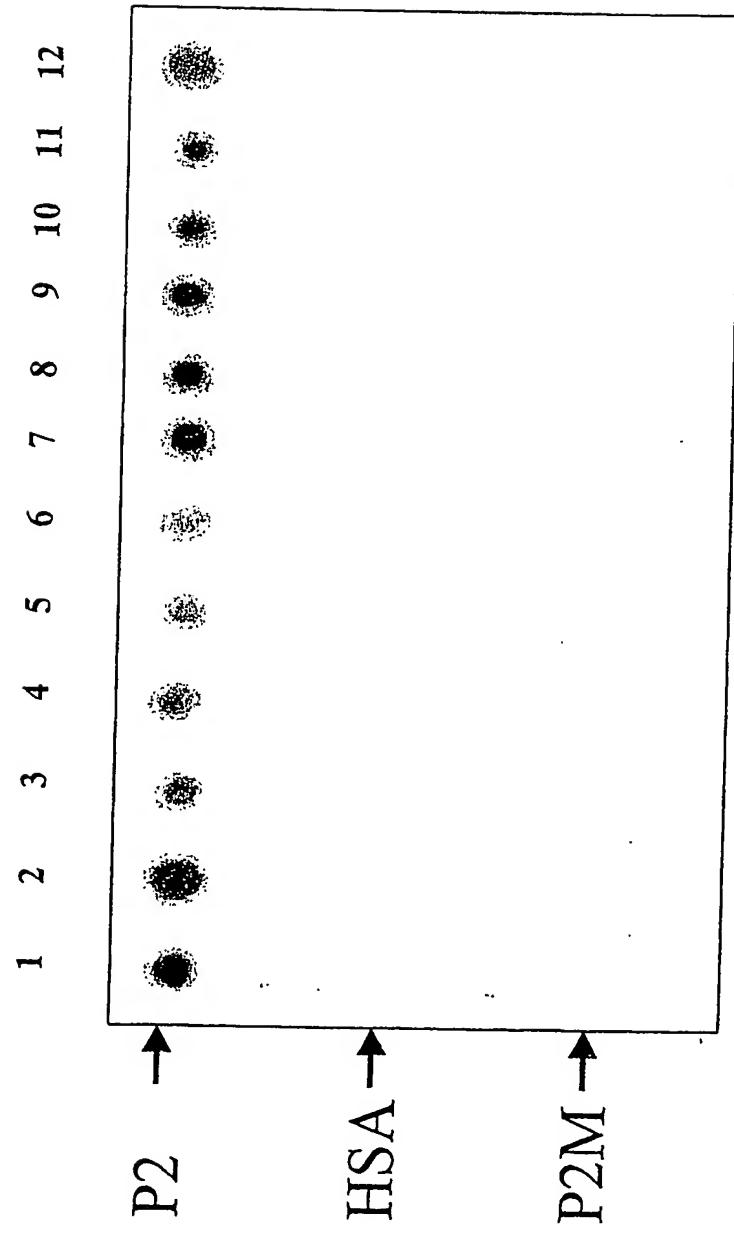
Figure 6

A

B

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Figure 7.



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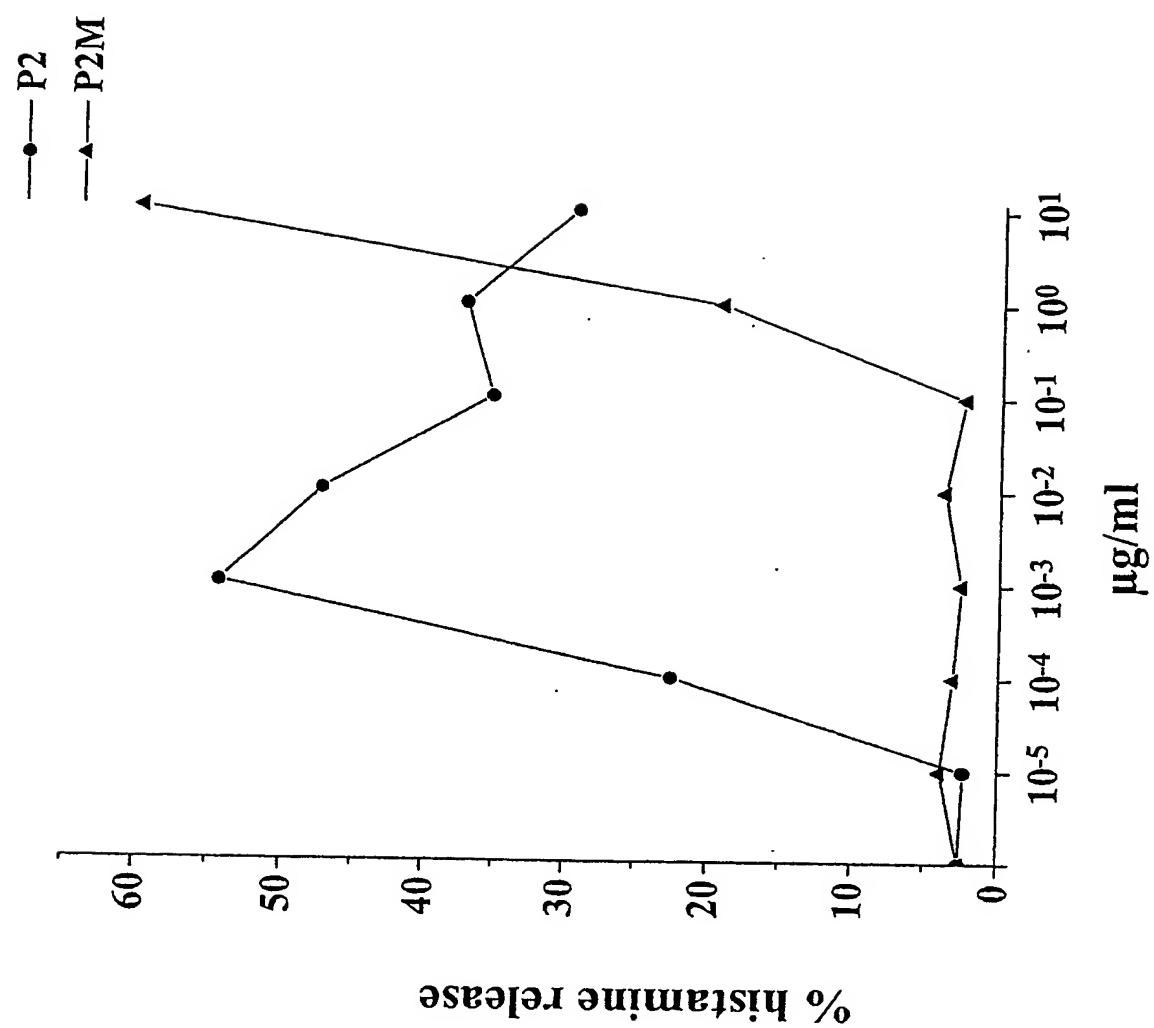


Figure 8.

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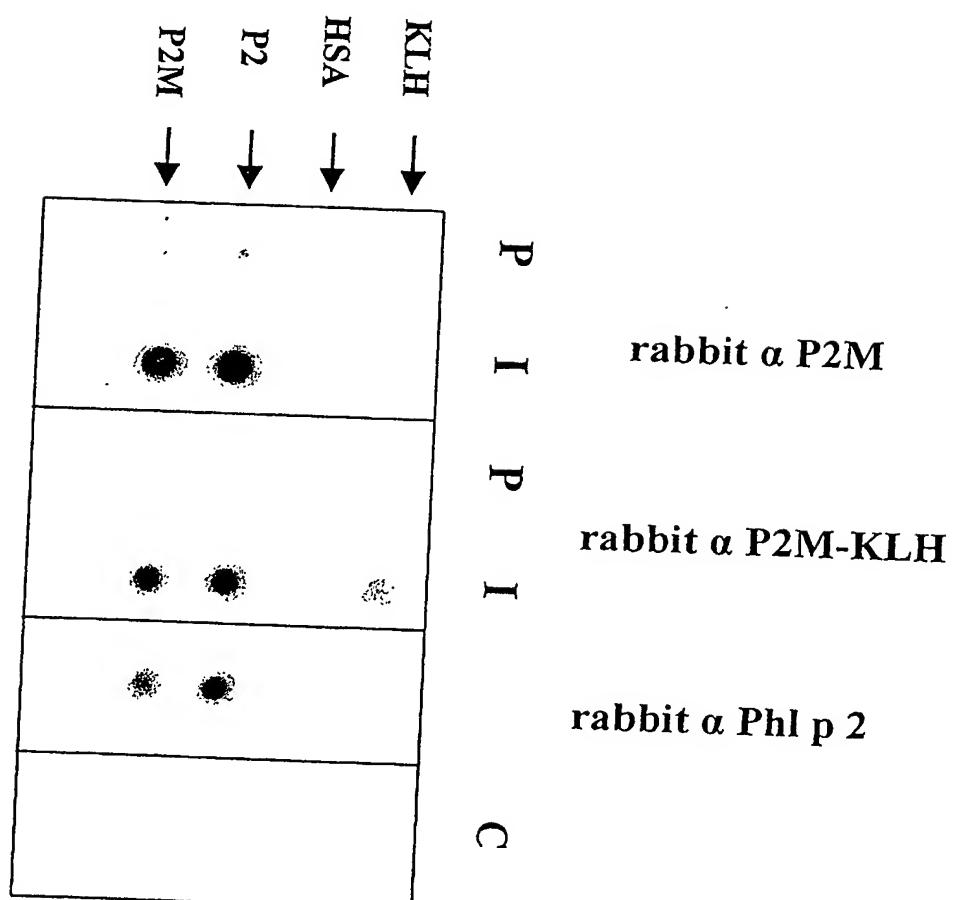


Figure 9.